

'VB .Net program to add two matrices.

Module Module1

Sub Main()

Dim matrix1(,) As Integer = New
Integer(2, 2) {}

Dim matrix2(,) As Integer = New
Integer(2, 2) {}

Dim matrix3(,) As Integer = New
Integer(2, 2) {}

Console.WriteLine("Enter Matrix1: ")

For i = 0 To 1 Step 1

For j = 0 To 1 Step 1

Console.Write("Enter
element[{0}][{1}]: ", i, j)

matrix1(i, j) =

Integer.Parse(Console.ReadLine())

Next

Next

```
Console.WriteLine("Enter Matrix2: ")
For i = 0 To 1 Step 1
    For j = 0 To 1 Step 1
        Console.Write("Enter
element[{0}][{1}]: ", i, j)
        matrix2(i, j) =
Integer.Parse(Console.ReadLine())
    Next
Next
```

```
'Add Matrix1 and Matrix2
For i = 0 To 1 Step 1
    For j = 0 To 1 Step 1
        matrix3(i, j) = matrix1(i, j) +
matrix2(i, j)
    Next
Next
```

```
Console.WriteLine("Matrix1: ")
For i = 0 To 1 Step 1
    For j = 0 To 1 Step 1
        Console.Write("{0} ", matrix1(i, j))
```

Next

Console.WriteLine()

Next

Console.WriteLine("Matrix2: ")

For i = 0 To 1 Step 1

For j = 0 To 1 Step 1

Console.Write("{0} ", matrix2(i, j))

Next

Console.WriteLine()

Next

Console.WriteLine("Addition of
Matrix1 and Matrix2: ")

For i = 0 To 1 Step 1

For j = 0 To 1 Step 1

Console.Write("{0} ", matrix3(i, j))

Next

Console.WriteLine()

Next

End Sub

End Module

'VB .Net program to implement bubble sort.

Module Module1

Sub Main()

Dim arr As Integer() = New Integer(5)

{

Dim temp As Integer = 0

Dim i,j As Integer = 0

Console.WriteLine("Enter array elements: ")

For i = 0 To 4 Step 1

Console.Write("Element[{0}]: ", i)

arr(i) =

Integer.Parse(Console.ReadLine())

Next

'Sort array using bubble sort.

For i = 0 To 4 Step 1

```
For j = 4 To i + 1 Step -1
```

```
    If (arr(j) < arr(j - 1)) Then
```

```
        temp = arr(j)
```

```
        arr(j) = arr(j - 1)
```

```
        arr(j - 1) = temp
```

```
    End If
```

```
Next
```

```
Next
```

```
    Console.WriteLine("Array after  
sorting: ")
```

```
    For i = 0 To 4 Step 1
```

```
        Console.Write("{0} ", arr(i))
```

```
    Next
```

```
    Console.WriteLine()
```

```
End Sub
```

```
End Module
```